

CLAIMS

CANCEL claims 1-45

46. (New) A system for receiving incoming communications in a receiving party's communication device comprising:

means for receiving and storing incoming communications originating source criteria;

means for storing information indicative of a user's response to incoming communications based on originating source criteria to establish a learned behavior criteria;

means for retrieving the incoming communications originating source criteria, time criteria, and learned behavior criteria of user with the said device; and

means for processing an incoming communication to the user of the system as a function of the originating source criteria, time criteria and learned behavior criteria of the user.

47.(New) The system of claim 46 further comprising means for using the communications originating source criteria and the associated time criteria along with the current time criteria, and learned behavior of said user to determine a functional operation of the system.

48. (New) The system of claim 47 and including means for initiating a search routine for searching the incoming communication criteria stored in the system to find a match with each incoming communication.

49. (New) The system of claim 46 and including means for comparing the present time criteria with stored time criteria associated with present incoming communication source criteria to determine time management functions to use for the present incoming communication.

50. (New) The system of claim 46 and including means for comparing the present user behavior criteria with stored learned user behavior criteria associated with present incoming communication source criteria to determine functional operation for the present incoming communication.

51. (New) The system of claim 46 and including means for determining a set of time management functions to use for a present system state.

52. (New) The system of claim 46 and including means for applying rule based logic to system conditions to determine functional operations of the system.

53. (New) The system of claim 52 wherein the functional operations comprise:

- obtaining and storing incoming communications criteria;
- storing and recording communications data;
- playing, storing, and recording outgoing messages (OGM);
- announcing incoming communications;
- user notification of incoming communication events;
- obtaining and storing time criteria;
- obtaining and storing associated time management functions;
- obtaining and storing said user's behavior while using said device;
- obtaining and storing said system state; and
- obtaining and storing the receiving party's communications device

functional operations.

54. (New) The system of claim 53 in which an emergency operation is executed upon a determination of an emergency condition by the receiving party's communication device per the receiving party's pre-selected functional operations.

55. (New) The system of claim 54 further comprising:  
means for receiving and storing an incoming communication emergency indication; and  
means for retrieving the receiving party's communication device operation to be executed upon an emergency condition indication.

56. (New) The system of claim 55 further comprising:  
means for receiving and decoding DTMF inputs from an incoming communication source;  
means for reading the emergency indication; and  
means for invoking the designated device operation to be executed upon an emergency condition indication.

57. (New) The system of claim 52 and including means for setting a current user mood and wherein learned behavior of said user with the device comprising means for reading the user's mood.

58. (New) The system of claim 57 and including means for setting and processing said system states and for invoking associated system functional operations to be used while said system is in a given state based on said user's mood.

59. (New) The system of claim 57 wherein the said user's mood is selected from the group comprising:  
an "I'm not available" state;  
an "I'm slightly available" state;  
an "I'm fairly available" state; and  
an "I'm completely available" state.

60. The system of claim 46 and including means for setting a user's rating of a communication source and wherein learned behavior of the user with the device comprising means for reading the user's rating of the communication source.

61. (New) The system of claim 60 and including means for setting and processing said system states and for invoking associated system functional operations to be used while said system is in a given state based on the user's communication rating.

62. (New) The system of claim 61 wherein the user's communication rating is based upon:

- user provided rating data;
- user communication duration;
- user frequency (i.e., quantity of times) of establishing communication with a particular communication source; and
- user stress.

63. (New) The system of claim 62 wherein the user's communication rating comprises rating data inputs provided by said user where said user inputs in said device how much the user liked a particular communication.

64. (New) The system of claim 63 wherein the user's communication rating effects learned behavior criteria of the user.

65. (New) The system of claim 64 wherein learned behavior criteria of the user comprises:

- short-term user interactions with said device; and
- long-term user interactions with said device.

66. (New) The system of claim 62 and including means for setting and processing said system states and for invoking associated system functional operations to be used while said system is in a given state based on said user's communication duration with a communication source.

67. (New) The system of claim 63 and including means for setting and processing said system states and for invoking associated system functional operations to be used while said system is in a given state based on said user's frequency of particular communications with a communication source.

68. (New) The system of claim 63 and including means for setting and processing said system states and for invoking associated system functional operations to be used while said system is in a given state based on said user's voice volume during a communication.

69. (New) The system of claim 46 wherein the incoming communication source criteria is a function of the identity of the calling party.

70. (New) The system of claim 46 wherein the incoming communication source criteria is a function of the identity of an originating call device.

71. (New) The system of claim 46 wherein the incoming communication source criteria depends on an account identity.

72. (New) The system of claim 46 wherein the incoming communication source criteria depends on a network identity.

73. (New) The system of claim 46 wherein the incoming communication source criteria depends on an identity of the incoming communication subject.

74. (New) The system of claim 46 wherein the incoming communication source criteria depends on an identity of the incoming communication type.

75. (New) The system of claim 74 wherein the incoming communication type is selected from the group comprising:

- a voice type;
- an internet content type;
- a video type;
- a textual type;
- a multimedia type;
- a fax type; and
- a broadcast media type.

76. (New) The system of claim 46 further comprising means for storing and processing system states by storing associated system functional operations to be used while the system is in a given state.

77. (New) The system of claim 76 further comprising means for storing and processing said system states and for invoking associated system functional operations to be used while said system is in a given state.

78. (New) The method of adjusting long-term and short-term user ratings of an incoming communication according to the formulae comprising:

$$Rating_{new} = Rating_{old} + f(t) \cdot (Rating_{entered} - Rating_{old})$$

$$f(t) = \frac{2}{1 + e^{-t/\tau}} - 1$$

wherein "t" is the time since the last update; and  
"τ" is a time constant determining the decay rate.